

## METHODS AND SYSTEM FOR RESEQUENCING OUT OF ORDER DATA PACKETS

### ABSTRACT

5       **[049]** Methods and a related data routing system for handling received data packets that are out of sequence and were previously declared lost. Following receipt of a data packet, it is determined if the sequence number of the received data packet is out of order in comparison to previously received data packets. If the sequence number is out of order, the distance between the out of order sequence number and the sequence number of the last data packet that was received in sequence is calculated. The distance is used to discard or keep the received data packet based on a predetermined amount of threshold level of distance, the threshold level of distance being a function of the finite amount of memory space of the data transmission device.